



BRISTELL B23

BRISTELL AIRCRAFTS -
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BRISTELL B23





BRISTELL B23

BRISTELL B23 TURBO

750 KG MTOW | 300 KG USEFUL LOAD

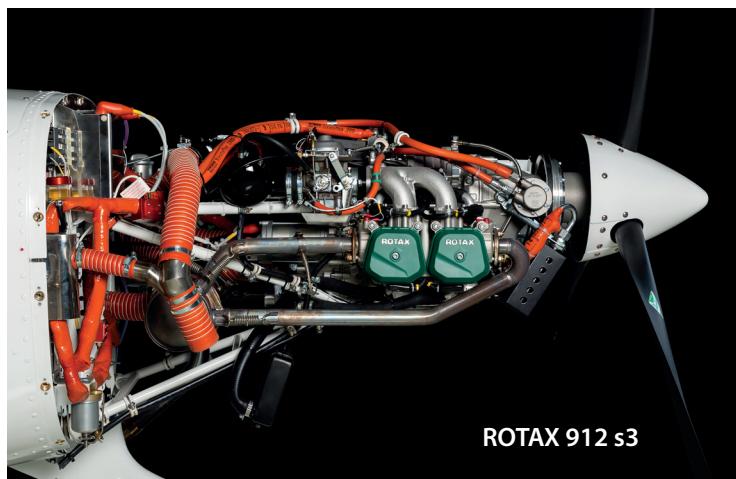
ROTAX 912 s3 / 915 iSc

BRISTELL, the Czech light aircraft manufacturer which has produced more than 670 aircraft by the end of 2021, has launched the BRISTELL B23, its next generation low-wingairplane. The B23 has been designed to satisfy the European CS23 / U.S. FAR23 certification basis. BRISTELL says they "had listened to feedback from happy customers from around the world" before designing the new aircraft.

While the airplane looks very similar to the classic BRISTELL LSA, there is far more to the new design. The fuselage is longer and the tail with an aluminium rudder is larger; the flaps and stabiliser are bigger and more efficient; the composite main landing gear legs have been redesigned completely to enable them to carry much heavier loads than previous Bristell models; and the aircraft's handling characteristics are much improved too. In addition, the twin elevator trim tab function helps the pilot to optimise the forces on the control stick.

The basic equipment includes a steerable nose wheel and a BRS ballistic parachute rescue system. The standard-equipped aircraft also meets the night-VFR requirements and can be upgraded to meet IFR requirements.

	ROTAX 912 s3	ROTAX 915 iS
Dimensions		
Wing span	9.274 m	
Aircraft length	6.585 m	
Aircraft height	2.36 m	
Cabin width	1.3 m	
Weight		
Empty weight	450 kg	465 kg
Useful load	300 kg	285 kg
Fuel tanks capacity	120 l	
Fuselage luggage compartment	15 kg	
Wing luggage compartment	2 x 20 kg	
Load factor	+4/-2g	
Airspeed, Climb and Cruise performance		
Manoeuvring speed V_A	98 KCAS	
Max. flap speed V_{FE}	81 KCAS	
Max. horizontal flight speed V_H	117 KTAS	FL140 157 KTAS
Never exceeded speed V_{NE}	156 KCAS	
Best rate of climb speed V_y (flaps retracted), MTOP	74 KIAS	82 KIAS
Best rate of climb (flaps retracted), MTOP	700 ft / min	1260 ft / min
Best angle of climb speed V_x , MTOP	62 KIAS	66 KIAS
Best rate of climb speed V_y (flaps 10 °), MTOP	76 KIAS	84 KIAS
Best rate of climb (flaps 10 °), MTOP	634 ft / min	1195 ft / min
Take-off distance (ground roll)	365 m	176 m
Take-off distance over 15m (50ft) obstacle	479 m	331 m
Landing distance (ground roll)	146 m	
Landing distance from 15m (50ft) height	391 m	
<i>All data at MTOW 750 kg</i>		



ROTAX 912 s3



ROTAX 915 iSc



BRISTELL CLASSIC

600 KG MTOW | ROTAX 912 ULS / 912 iS / 915 iS

The ultra-light BRISTELL UL and its LSA modification in the three-wheel fixed undercarriage configuration is a great choice for training at flight schools, glider towing and recreational flying.

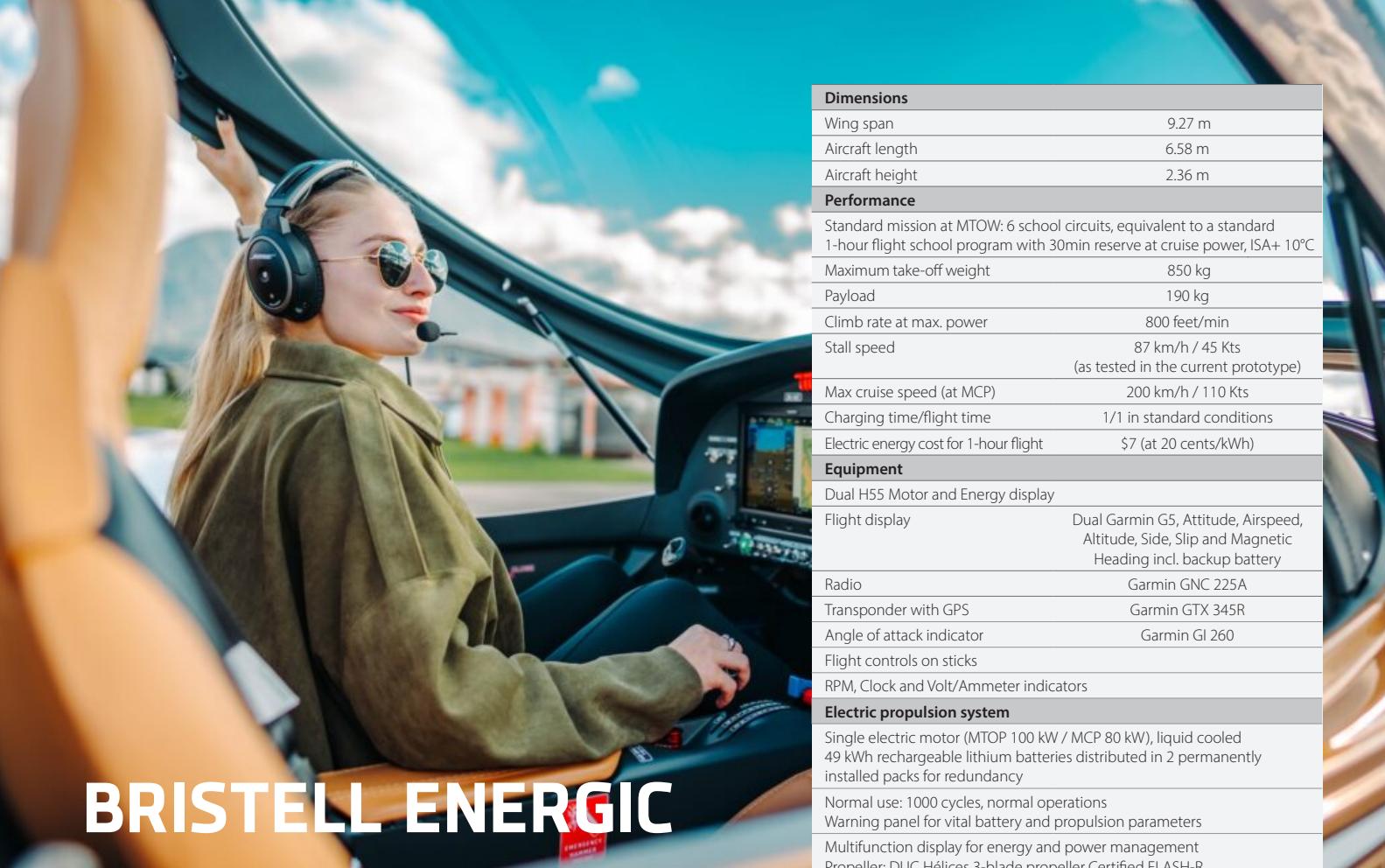
Thanks to the combined comfort of good ergonomic design and the largest cockpit in its category, this airplane is the ideal choice for longer cross-country flights. The BRISTELL HD version offers heavy-duty wing spars which make cross-country flights much safer in extreme weather conditions.

Easy to pilot and taxi. Low maintenance costs.
Large luggage compartment.
Our bestseller!

Certified also with ROTAX 915 iS in Germany.

	ROTAX 912 ULS	ROTAX 915 iS
Dimensions		
Wing span	9.13 m	
Aircraft length	6.45 m	
Aircraft height	2.28 m	
Cabin width	1.3 m	
Weight		
Empty weight	330 kg	360 kg
Maximum take-off weight	600 kg	
Fuel tanks capacity	120 / 164 l	
Wing luggage compartment	2 x 20 kg	
Load factor	+4/-2g	
Operational speed		
Manoeuvring speed V_A	97 KCAS	
Max. flap speed V_{FE}	75 KCAS	
Max. horizontal flight speed V_H	123 KTAS	141 KTAS
Never exceeded speed V_{NE}		156 KCAS



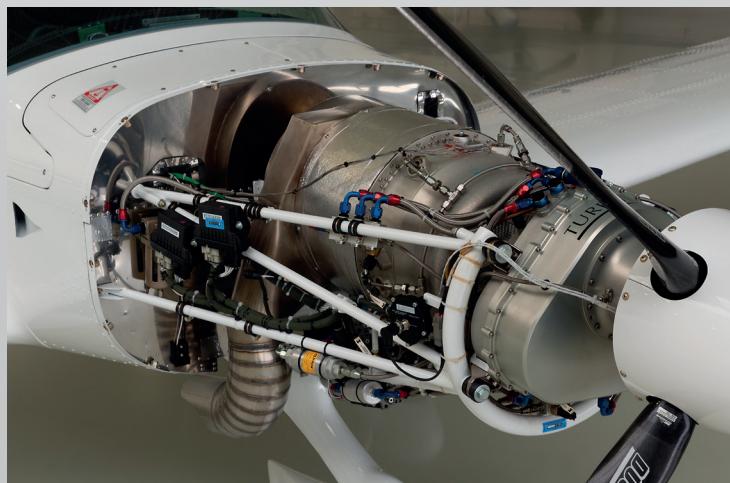


BRISTELL ENERGIC

H55's mission is to develop certified electric propulsion systems for the aviation industry so as to make air transport quieter, cleaner and more affordable. The company's patented technology offers client-based solutions concerning electric propulsion for existing aircraft designs and future VTOL concepts. Given its 15 years of electric flight experience at Solar Impulse, H55 is a reputable and reliable company in the field of electric aviation.

Dimensions	
Wing span	9.27 m
Aircraft length	6.58 m
Aircraft height	2.36 m
Performance	
Standard mission at MTOW: 6 school circuits, equivalent to a standard 1-hour flight school program with 30min reserve at cruise power, ISA+ 10°C	
Maximum take-off weight	850 kg
Payload	190 kg
Climb rate at max. power	800 feet/min
Stall speed	87 km/h / 45 Kts (as tested in the current prototype)
Max cruise speed (at MCP)	200 km/h / 110 Kts
Charging time/flight time	1/1 in standard conditions
Electric energy cost for 1-hour flight	\$7 (at 20 cents/kWh)
Equipment	
Dual H55 Motor and Energy display	
Flight display	Dual Garmin G5, Attitude, Airspeed, Altitude, Side, Slip and Magnetic Heading incl. backup battery
Radio	Garmin GNC 225A
Transponder with GPS	Garmin GTX 345R
Angle of attack indicator	Garmin GI 260
Flight controls on sticks	
RPM, Clock and Volt/Ammeter indicators	
Electric propulsion system	
Single electric motor (MTOP 100 kW / MCP 80 kW), liquid cooled 49 kWh rechargeable lithium batteries distributed in 2 permanently installed packs for redundancy	
Normal use: 1000 cycles, normal operations	
Warning panel for vital battery and propulsion parameters	
Multifunction display for energy and power management	
Propeller: DUC Hélices 3-blade propeller Certified FLASH-R (as tested in the current prototype)	
ROTAZ 914 UL	
Charging Requirements*	
Input voltage	3 phase 400V 50Hz
Input current	32A or 63A**
Output voltage	800V
Possibility to adapt to any EV charger station satisfying above conditions	
*For maximum performance and efficiency	
**Charging time depends on charger power	

BRISTELL TURBOPROP



Dimensions	
Wing span	8.13 / 9.13 m
Aircraft length	6.45 m
Aircraft height	2.28 m
Cabin width	1.3 m
Weight	
Empty weight	350 kg
Maximum take-off weight	600 kg
Fuel tank capacity	120 / 164 l
Fuselage luggage compartment	15 kg
Wing luggage compartment	2 x 20 kg
Load factor	+4/-2g
Turboprop engine	
Power	130 HP
Fuel consumption on 75%	25 l/h
Fuel	Jet A1, Diesel
TBO	3000 hours
Operational speed	
Manoeuvring speed V_A	97 KCAS
Max. flap speed V_{FE}	75 KCAS
Max. horizontal flight speed V_H	127 KTAS
Never exceeded speed V_{NE}	156 KCAS



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